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## PATENT ABSTRACTS OF JAPAN

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## (54) MANUFACTURE OF SILICON THIN FILM

## (57) Abstract:

PURPOSE: To enable formation of a continuous silicon thin film having a film thickness of 300Å or less by arranging a substrate inside a vacuum CVD device, by heating an interior of the device to 400 to 550°C, by supplying pure disilane thereto, and by forming silicon by vapor growth at a growth speed of 60Å/minute or less on the substrate.

of 300Å or less and without an by vapor growth and continuous device at a specified temperature to such as nitrogen, hydrogen, helium, can be supplied by diluting with gas or trisilane are suitable. The disilane certain other silane such as monosilane substrate by supplying pure disilane 60Å/minute or less on the vapor growth at a growth speed of 400 to 550°C and silicon is formed by An interior of the device is heated to arranged inside a vacuum CVD device. island-like interruption can be formed silicon thin film having film thickness decomposed inside a vacuum CVD and argon. Thereby, disilane is CONSTITUTION: A substrate is form silicon on the substrate uniformly for the disilane, ones which do not thereto to form a silicon thin film. As

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